



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/876,150	06/08/2001	Heui-jong Kang	1293.1217	6721

49455 7590 10/06/2005
STEIN, MCEWEN & BUI, LLP
1400 EYE STREET, NW
SUITE 300
WASHINGTON, DC 20005

EXAMINER

DANG, DU Y M

ART UNIT PAPER NUMBER

2627

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/876,150	Applicant(s) KANG ET AL.	
Examiner Duy M. Dang	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 05 July 2005.
- 2a) This action is **FINAL**.
- 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-30 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 2-7, 12-18 and 20-30 is/are allowed.
- 6) Claim(s) 1 and 11 is/are rejected.
- 7) Claim(s) 8-10 and 19 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 4/14/05.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____

DETAILED ACTION

1. Applicant's amendment filed 7/5/05 has been entered and made of record.

Applicant's amendment and remarks overcome the rejection of claims 8-10 and 19 under section of 35 U.S.C. 112, 1st paragraph.

Applicant's arguments, see last 7 lines of page 11 to first 4 lines of page 12, filed 7/5/05, with respect to the rejection of claims 1 and 11 under section 35 U.S.C 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Kawamura et al. [USPN 5,719,982].

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art (see figure 1 and its corresponding text portion on last two paragraphs of page 1 to first two paragraphs of page 3. Referred as the AAPA hereinafter) in view of Kawamura et al. [USPN 5,719,982]; further in view of Fields et al. [USPN 6,771,671].

Regarding claims 1, and 11 the AAPA teaches an apparatus for transmitting a graphic signal generated by a graphic signal generation unit to a display unit [see figure 1 : transmission unit 11, reception unit 12, and display unit 132] the apparatus comprising:

a transmission interface unit which: compares a current graphic signal with a previous

Art Unit: 2621

graphic signal and compresses the current graphic signal to generate transmission data based on the comparison, modulates the transmission data together with header information into an optical signal for transmission via a single channel; and transmits the optical signal [see transmission unit 11 of figure 1];

a reception interface unit which regenerates a graphic signal based on the transmission data and header information contained in the optical signal and transmits the regenerated graphic signal to the display unit [see reception unit 12 of figure 1].

While the AAPA teaches a transmission interface unit, the AAPA does not explicitly teach: compares a current graphic signal with a previous graphic signal and compresses the current graphic signal to generate compressed transmission data based on the comparison, modulates the transmission data together with header information into an optical signal for transmission via a single channel. However, such features are well known in the art as evidenced by Kawamura et al.

Kawamura et al. teaches: compares a current graphic signal with a previous graphic signal and compresses the current graphic signal to generate compressed transmission data based on the comparison [see col. 2 lines 54-56], modulates the transmission data together with header information into an optical signal for transmission via a single channel [see MOD 53 of figure 7].

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the claimed features as taught by Kawamura et al. in combination with the AAPA in order to effectively increase the compression efficiency as suggested by Kawamura et al. in col. 2 lines 56-57.

Art Unit: 2621

While the AAPA teaches transmitting graphic data [see last three lines of page 1], the AAPA does not explicitly teach the use of optical transmission medium as a means for transmitting data. Using optical transmission is well known in the art as evidenced by Fields et al. [see col. 4 lines 35-36 and item 124 of figure 31]. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the conventional teachings ms taught by Fields et al in combination with the AAPA in order to allow faster transmission.

4. Claims 8-10 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. Claims 2-7, 12-18, and 20-30 are allowed.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy M. Dang whose telephone number is 571-272-7389. The examiner can normally be reached on Monday to Friday from 5:30AM to 2:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Mancuso can be reached on 571-272-7695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

dmd
9/05



Duy M. Dang
Patent Examiner